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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2019-04-08-35** **Date: 16/03/2019**
Customer	:	Assistant Executive Engineer, Yelahanka New Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka New Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RO Plant Near Dairy Circle in Ward no 03, Attur.
Agency	:	Sri.N.Rajesh(K Flow RO), No:541,9th Main, 2nd Block, 41st Cross, Behind Vijayabank, Rajajinagara, Bangalore-10.
Customer's Reference	:	EE(YNK D)E-PMT-02/W.O/115/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	11-03-2019
Customer ID	:	M20 Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	16/03/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	09/03/2019	16/03/2019	151.64 X 149.15 X 150.40	22617	8.276	424.9	18.8	18.8
2	M20 Concrete	M20	09/03/2019	16/03/2019	149.04 X 150.49 X 151.81	22429	8.698	423.1	18.9	
3	M20 Concrete	M20	09/03/2019	16/03/2019	151.99 X 151.36 X 150.16	23005	8.480	434.1	18.9	

Note:
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Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2019-04-08-35** **Date: 06/04/2019**
Customer	:	Assistant Executive Engineer, Yelahanka New Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka New Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RO Plant Near Dairy Circle in Ward no 03, Attur.
Agency	:	Sri.N.Rajesh(K Flow RO), No:541,9th Main, 2nd Block, 41st Cross, Behind Vijayabank, Rajajinagara, Bangalore-10.
Customer's Reference	:	EE(YNK.D)E-PMT-02/W.O/115/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	11-03-2019
Customer ID	:	M20 Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	06/04/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	09/03/2019	06/04/2019	150.74 X 150.97 X 149.87	22758	8.334	527.2	23.2	23.0
2	M20 Concrete	M20	09/03/2019	06/04/2019	149.90 X 150.74 X 150.99	22596	8.356	515.5	22.8	
3	M20 Concrete	M20	09/03/2019	06/04/2019	149.94 X 151.11 X 150.82	22657	8.342	523.2	23.1	

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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2019-04-08-35** **Date: 01-03-2019**
Customer	:	Assistant Executive Engineer, Yelahanka New Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka New Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RO Plant Near Dairy Circle in Ward no 03, Attur.
Agency	:	Sri.N.Rajesh(K Flow RO), No:541,9th Main, 2nd Block, 41st Cross, Behind Vijayabank, Rajajinagara, Bangalore-10.
Customer's Reference	:	EE(YNK.D)E-PMT-02/W.O/115/2018-19
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	25-02-2019
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	25-02-2019

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	245	245	1.6	98.4	90-100
3	20 mm	5431	5676	37.8	62.2	30-70
4	10 mm	4330	10006	66.7	33.3	10-35
5	4.75 mm	4653	14659	97.7	2.3	0-5
6	Pan	341	15000	100.0	0	---

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	CP-2019-04-08-35 **Date: 01-03-2019**
Customer	:	Assistant Executive Engineer, Yelahanka New Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka New Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RO Plant Near Dairy Circle in Ward no 03, Attur.
Agency	:	Sri.N.Rajesh(K Flow RO), No:541,9th Main, 2nd Block, 41st Cross, Behind Vijayabank, Rajajinagara, Bangalore-10.
Customer's Reference	:	EE(YNK.D)E-PMT-02/W.O/115/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	25-02-2019
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	26-02-2019
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

SLNo.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.98	–
2	Finess by Air permeablity method (m^2/kg,Min)	285.3	225m^2/kg, Min
3	Density (gm/cc)	3.11	–
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	150 minutes	Not less than 30 minutes
6	Final Setting time	245minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.2mm	Not more than 10 mm

Note:

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All information furnished by Customer/Representative

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2019-04-08-35** **Date: 26-03-2019**
Customer	:	Assistant Executive Engineer, Yelahanka New Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka New Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RO Plant Near Dairy Circle in Ward no 03, Attur.
Agency	:	Sri.N.Rajesh(K Flow RO), No:541,9th Main, 2nd Block, 41st Cross, Behind Vijayabank, Rajajinagara, Bangalore-10.
Customer's Reference	:	EE(YNK.D)E-PMT-02/W.O/115/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	25-02-2019
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	26-02-2019
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

SLNo.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.0N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.5N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.0N/mm^2	Not less than 53 N/mm^2

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2019-04-08-35** **Date: 01-03-2019**
Customer	:	Assistant Executive Engineer, Yelahanka New Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka New Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RO Plant Near Dairy Circle in Ward no 03, Attur.
Agency	:	Sri.N.Rajesh(K Flow RO), No:541,9th Main, 2nd Block, 41st Cross, Behind Vijayabank, Rajajinagara, Bangalore-10.
Customer's Reference	:	EE(YNK.D)E-PMT-02/W.O/115/2018-19
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	25-02-2019
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids, Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	25-02-2019

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : **15000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	245	245	1.6	98.4	90-100
3	20 mm	5431	5676	37.8	62.2	30-70
4	10 mm	4330	10006	66.7	33.3	10-35
5	4.75 mm	4653	14659	97.7	2.3	0-5
6	Pan	341	15000	100.0	0	---

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TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID	:	CP-2019-04-08-35 **Date: 05-03-2019**
Customer	:	Assistant Executive Engineer, Yelahanka New Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka New Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RO Plant Near Dairy Circle in Ward no 03, Attur.
Agency	:	Sri.N.Rajesh(K Flow RO), No:541,9th Main, 2nd Block, 41st Cross, Behind Vijayabank, Rajajinagara, Bangalore-10.
Customer's Reference	:	EE(YNK.D)E-PMT-02/W.O/115/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	02-03-2019
Sample Type/Size	:	Solid concrete blocks size (400X200X200)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test	:	02-03-2019

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185(Part 1) :2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	403	199	200	16039	31.601	1970.2	1969.8	Not less than 1800Kg/m^3
2	402	202	200	16241	31.933	1966.2		
3	402	203	199	16240	32.041	1973.0		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185(Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	33.91	32.25	4.89	4.25	Shall not be more than 10% by mass
2	33.57	32.14	4.28		
3	33.44	32.24	3.59		

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2019-04-08-35** **Date: 08-03-2019**
Customer	:	Assistant Executive Engineer, Yelahanka New Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka New Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RO Plant Near Dairy Circle in Ward no 03, Attur.
Agency	:	Sri.N.Rajesh(K Flow RO), No:541,9th Main, 2nd Block, 41st Cross, Behind Vijayabank, Rajajinagara, Bangalore-10.
Customer's Reference	:	EE(YNK.D)E-PMT-02/W.O/115/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-03-2019
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	06-03-2019

SLNo	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.393	514	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.617	528	673	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.887	546	667	20.0%	Satisfactory	Satisfactory

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Authorized Signatory
Quality Manager

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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2019-04-08-35** **Date: 28-02-2019**
Customer	:	Assistant Executive Engineer, Yelahanka New Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka New Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RO Plant Near Dairy Circle in Ward no 03, Attur.
Agency	:	Sri.N.Rajesh(K Flow RO), No:541,9th Main, 2nd Block, 41st Cross, Behind Vijayabank, Rajajinagara, Bangalore-10.
Customer Reference	:	EE(YNK.D)E-PMT-02/W.O/115/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	25-02-2019
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	25-02-2019

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	243	243	4.9	95.1	90-100
3	10 mm	2565	2808	56.2	43.8	25-55
4	4.75 mm	2037	4845	96.9	3.1	0-10
5	Pan	155	5000	100	0	–

CIVIL PRO Sig Date BANGALORE

Format No: CP/TF/01

TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2019-04-08-35 **Date: 28-02-2019**

Customer : Assistant Executive Engineer, Yelahanka New Town Sub Division, BBMP, Bangalore.

Address : Yelahanka New Town Sub Division, BBMP, Bangalore.

Project Name : Construction of RO Plant Near Dairy Circle in Ward no 03, Attur.

Agency : Sri.N.Rajesh(K Flow RO), No:541,9th Main, 2nd Block, 41st Cross, Behind Vijayabank, Rajajinagara, Bangalore-10.

Customer's Reference : EE(YNK.D)E-PMT-02/W.O/115/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 25-02-2019

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 25-02-2019

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	23	23	2.3	97.7	90-100	90-100	90-100	95-100
3	2.36 mm	187	210	21.0	79.0	60-95	75-100	85-100	95-100
4	1.18 mm	202	412	41.2	58.8	30-70	55-90	75-100	90-100
5	600 micron	169	581	58.1	41.9	15-34	35-59	60-79	80-100
6	300 micron	228	809	80.9	19.1	5-20	8-30	12-40	15-50
7	150 micron	154	963	96.3	3.7	0-10	0-10	0-10	0-15
8	Pan	37	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2019-04-08-35** **Date: 16/03/2019**
Customer	:	Assistant Executive Engineer, Yelahanka New Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka New Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RO Plant Near Dairy Circle in Ward no 03, Attur.
Agency	:	Sri.N.Rajesh(K Flow RO), No:541,9th Main, 2nd Block, 41st Cross, Behind Vijayabank, Rajajinagara, Bangalore-10.
Customer's Reference	:	EE(YNK.D)E-PMT-02/W.O/115/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	11-03-2019
Customer ID	:	M20 Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	16/03/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	09/03/2019	16/03/2019	151.88 X 149.22 X 149.93	22665	8.276	427.6	18.9	18.5
2	M20 Concrete	M20	09/03/2019	16/03/2019	150.32 X 151.00 X 151.42	22699	8.698	422.8	18.6	
3	M20 Concrete	M20	09/03/2019	16/03/2019	149.01 X 151.72 X 151.55	22609	8.480	407.3	18.0	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2019-04-08-35** **Date: 06/04/2019**
Customer	:	Assistant Executive Engineer, Yelahanka New Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka New Town Sub Division, BBMP, Bangalore.
Project Name	:	Construction of RO Plant Near Dairy Circle in Ward no 03, Attur.
Agency	:	Sri.N.Rajesh(K Flow RO), No:541,9th Main, 2nd Block, 41st Cross, Behind Vijayabank, Rajajinagara, Bangalore-10.
Customer's Reference	:	EE(YNK.D)E-PMT-02/W.O/115/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	11-03-2019
Customer ID	:	M20 Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl 5
Date of test	:	06/04/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	M20 Concrete	M20	09/03/2019	06/04/2019	151.27 X 150.63 X 149.35	22786	8.334	529.0	23.2	23.2
2	M20 Concrete	M20	09/03/2019	06/04/2019	151.19 X 151.48 X 149.90	22903	8.356	519.3	22.7	
3	M20 Concrete	M20	09/03/2019	06/04/2019	151.90 X 150.60 X 149.84	22876	8.342	542.5	23.7	

Note:
The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
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Samples will be disposed after 90 days from the date of issue of test certificate

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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